

(d(CH₂)₅1,Tyr(Me)₂,Arg₈)-Vasopressin

Chemical Properties

CAS No.:	73168-24-8
Formula:	C ₅₂ H ₇₄ N ₁₄ O ₁₂ S ₂
Molecular Weight:	1151.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Selective vasopressin V1A receptor antagonist. Inhibits vasopressin and oxytocin-induced increases in intracellular calcium concentrations in vitro (IC ₅₀ values are 5 and 30 nM respectively). Exhibits potent and prolonged antivasopressor activity and induces anxiolytic-like effects in the dorsal, but not ventral, hippocampus in vivo.
-------------	---

Solubility Information

Solubility	water: 2 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.869 mL	4.343 mL	8.685 mL
5 mM	0.174 mL	0.869 mL	1.737 mL
10 mM	0.087 mL	0.434 mL	0.869 mL
50 mM	0.017 mL	0.087 mL	0.174 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Kruszynski et al (1980) [1-(β-mercapto-β,β-cyclopentamethylenepropionic acid),2-(O-methyl)tyrosine]arginine-vasopressin and [1-(β-mercapto-β,β-cyclopentamethylenepropionic acid)]arginine-vasopressin, two highly potent antagonists of the vas J.Med.Chem. 23 364 PMID: 6892930
- Spath et al (1996) Arginine vasopressin and oxyt. increase intracellular calcium and cAMP in human glomerular epithelial cells in culture. Kidney Blood Press.Res. 19 81 PMID: 8871886
- Tsuchiya et al (2002) Vasopressin inhibits sarcolemmal ATP-sensitive K⁺ channels via V1 receptors activation in the guinea pig heart. Circ.J. 66 277 PMID: 11922278
- Engin and Treit (2008) Dissociation of the anxiolytic-like effects of Avpr1a and Avpr1b receptor antagonists in the dorsal and ventral hippocampus. Neuropeptides 42 411 PMID: 18508119

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481